

Message

**From:** Berner, Ted [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F1949C9653024D3CB4AA4C2BD69C4FDE-BERNER, TED]  
**Sent:** 9/20/2018 6:22:11 PM  
**To:** D'Amico, Louis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=78a91f83c4414910be286efe02004dbc-D'Amico, Louis J.]  
**CC:** Bussard, David [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cf26b876393e44f38bdd06db02dbbfe5-Bussard, David]; Bahadori, Tina [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7da7967dcafb4c5bbc39c666fee31ec3-Bahadori, Tina]; Ross, Mary [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=98359cd1f66f46ec91d327e99a3c6909-Ross, Mary]; Jones, Samantha [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=eac77fe3b20c4667b8c534c90c15a830-Jones, Samantha]; Thayer, Kris [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3ce4ae3f107749c6815f243260df98c3-Thayer, Kri]; Vandenberg, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dcae2b98a04540fb8d099f9d4dead690-Vandenberg, John]  
**Subject:** Re: EtO uncertainties - what is the issue re acute?

**Deliberative Process / Ex. 5**

-Ted Berner

Sent from my iPhone, so pardon the brevity of my response.

On Sep 20, 2018, at 2:09 PM, D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)> wrote:

**Deliberative Process / Ex. 5**

Louis D'Amico, Ph.D.  
Senior Science Advisor  
Office of Research and Development  
U.S. Environmental Protection Agency  
Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC 20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 | email: [damico.louis@epa.gov](mailto:damico.louis@epa.gov)

**From:** Berner, Ted  
**Sent:** Thursday, September 20, 2018 2:08 PM  
**To:** Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>  
**Cc:** D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>  
**Subject:** Re: EtO uncertainties - what is the issue re acute?

I'm OK with this change, but if you want to leave it the way that it is, I'm fine with that too.

-Ted Berner

Sent from my iPhone, so pardon the brevity of my response.

On Sep 20, 2018, at 2:02 PM, Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)> wrote:

Lou,

# Deliberative Process / Ex. 5

David

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**From:** D'Amico, Louis  
**Sent:** Thursday, September 20, 2018 1:30 PM  
**To:** Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>  
**Subject:** RE: EtO uncertainties - what is the issue re acute?

Dammit. This time with attachment.

Louis D'Amico, Ph.D.  
Senior Science Advisor  
Office of Research and Development  
U.S. Environmental Protection Agency  
Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC 20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 | email: [damico.louis@epa.gov](mailto:damico.louis@epa.gov)

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**From:** D'Amico, Louis  
**Sent:** Thursday, September 20, 2018 1:19 PM  
**To:** Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>  
**Subject:** RE: EtO uncertainties - what is the issue re acute?

New version with track changes, and some edits trying to reflect what Jennifer wants. A couple open questions to NCEA, mainly on the CalEPA assessment and a characterization of the SAB report? See what you think....

Louis D'Amico, Ph.D.  
Senior Science Advisor  
Office of Research and Development  
U.S. Environmental Protection Agency  
Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC 20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 email: [damico.louis@epa.gov](mailto:damico.louis@epa.gov)

---

**From:** Berner, Ted  
**Sent:** Thursday, September 20, 2018 12:24 PM  
**To:** D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>  
**Subject:** RE: EtO uncertainties - what is the issue re acute?

Hey Lou,

If you look at the first few sentences of the e-mail that I sent you yesterday, that was my attempt to condense the more detailed description of what CalEPA did in their EtO assessment. Can you work from those sentences?

-Ted

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**From:** D'Amico, Louis  
**Sent:** Thursday, September 20, 2018 12:05 PM  
**To:** Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>  
**Subject:** RE: EtO uncertainties - what is the issue re acute?

I'm working on edits from Jennifer now. Can someone pull some language (more specifics) about what has changed from the 85 assessment and what was available in the new assessment?

I need the same info for CalEPA. Ted if you could condense what you sent me yesterday, that would be great.

I'll try and send other edits back to the group shortly....

Louis D'Amico, Ph.D.  
Senior Science Advisor  
Office of Research and Development  
U.S. Environmental Protection Agency  
Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC 20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 email: [damico.louis@epa.gov](mailto:damico.louis@epa.gov)

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**From:** Berner, Ted  
**Sent:** Thursday, September 20, 2018 11:11 AM  
**To:** Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross,

Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>

**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris  
<[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>

**Subject:** RE: EtO uncertainties - what is the issue re acute?

Lou,

## Deliberative Process / Ex. 5

-Ted

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**From:** Bussard, David

**Sent:** Thursday, September 20, 2018 11:06 AM

**To:** D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Bahadori, Tina  
<[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Ross, Mary  
<[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>

**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris  
<[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>; Vandenberg, John <[Vandenberg.John@epa.gov](mailto:Vandenberg.John@epa.gov)>

**Subject:** RE: EtO uncertainties - what is the issue re acute?

Lou,

## Deliberative Process / Ex. 5

David

---

**From:** D'Amico, Louis

**Sent:** Thursday, September 20, 2018 10:57 AM

**To:** Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Bahadori, Tina  
<[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Ross,  
Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>

**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris  
<[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>

**Subject:** RE: EtO uncertainties

## Deliberative Process / Ex. 5

Louis D'Amico, Ph.D.  
Senior Science Advisor

Office of Research and Development  
U.S. Environmental Protection Agency  
Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC 20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 | email: [damico.louis@epa.gov](mailto:damico.louis@epa.gov)

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**From:** Bussard, David  
**Sent:** Thursday, September 20, 2018 10:54 AM  
**To:** Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>  
**Subject:** RE: EtO uncertainties

Looks good.

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**From:** Bahadori, Tina  
**Sent:** Thursday, September 20, 2018 10:53 AM  
**To:** D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>  
**Subject:** RE: EtO uncertainties

Very good.  
T.

---

**From:** D'Amico, Louis  
**Sent:** Thursday, September 20, 2018 10:51 AM  
**To:** Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>  
**Subject:** RE: EtO uncertainties

Just to tie this one up, here's what I'm throwing in front of Jennifer. I added David's edits, as well as mine. I also truncated the last sentence in the second paragraph (since it was essentially verbatim with the last sentence in the 1st paragraph). -Lou

## Deliberative Process / Ex. 5

## Deliberative Process / Ex. 5

Louis D'Amico, Ph.D.  
Senior Science Advisor  
Office of Research and Development  
U.S. Environmental Protection Agency  
Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC  
20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 | email:  
[damico.louis@epa.gov](mailto:damico.louis@epa.gov)

---

**From:** Berner, Ted  
**Sent:** Thursday, September 20, 2018 9:03 AM  
**To:** Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; D'Amico, Louis  
<[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Bussard, David  
<[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Bahadori,  
Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Thayer, Kris

<thayer.kris@epa.gov>

**Subject:** RE: EtO uncertainties

Mary et al.,

Yes, this is much better. Lou will have to judge whether it meets IOAA's needs, as I wasn't exactly clear on the intended audience.

-Ted

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**From:** Ross, Mary

**Sent:** Wednesday, September 19, 2018 5:30 PM

**To:** Berner, Ted <Berner.Ted@epa.gov>; D'Amico, Louis

<DAmico.Louis@epa.gov>; Bussard, David

<Bussard.David@epa.gov>

**Cc:** Jones, Samantha <Jones.Samantha@epa.gov>; Bahadori,

Tina <Bahadori.Tina@epa.gov>; Thayer, Kris

<thayer.kris@epa.gov>

**Subject:** RE: EtO uncertainties

Hi everyone. I accepted the changes to make it easier to read, and I still find it a little hard to see our key message(s).

Here's an attempt from me to do that, see if it works. And I'll pasted a clean version of the text below. I was going to make the top two into bullets, but my new laptop is still getting up to speed and wouldn't make bullets for me (? Oh well?).

## Deliberative Process / Ex. 5

# Deliberative Process / Ex. 5

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**From:** Berner, Ted  
**Sent:** Wednesday, September 19, 2018 4:42 PM  
**To:** D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>  
**Cc:** Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>  
**Subject:** RE: EtO uncertainties

Hey Lou,

Here are some comments/suggested revisions from me.

-Ted

---

**From:** D'Amico, Louis  
**Sent:** Wednesday, September 19, 2018 11:57 AM  
**To:** Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>  
**Cc:** Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>  
**Subject:** RE: EtO uncertainties

Here are some initial thoughts. Do others want to jump in?

Lou

Louis D'Amico, Ph.D.  
Senior Science Advisor  
Office of Research and Development  
U.S. Environmental Protection Agency



Mail Code 8101R | 1200 Pennsylvania Ave, NW | Washington, DC  
20460

Office: 202-564-4605 | Mobile: Personal Matters / Ex. 6 email:  
[damico.louis@epa.gov](mailto:damico.louis@epa.gov)

---

**From:** Bussard, David  
**Sent:** Tuesday, September 18, 2018 9:41 PM  
**To:** D'Amico, Louis <[DAmico.Louis@epa.gov](mailto:DAmico.Louis@epa.gov)>  
**Cc:** Berner, Ted <[Berner.Ted@epa.gov](mailto:Berner.Ted@epa.gov)>; Jones, Samantha <[Jones.Samantha@epa.gov](mailto:Jones.Samantha@epa.gov)>; Bahadori, Tina <[Bahadori.Tina@epa.gov](mailto:Bahadori.Tina@epa.gov)>; Ross, Mary <[Ross.Mary@epa.gov](mailto:Ross.Mary@epa.gov)>; Bussard, David <[Bussard.David@epa.gov](mailto:Bussard.David@epa.gov)>; Thayer, Kris <[thayer.kris@epa.gov](mailto:thayer.kris@epa.gov)>  
**Subject:** EtO uncertainties

Lou,

## Deliberative Process / Ex. 5

David A. Bussard

Director, Washington Division, National Center for  
Environmental Assessment (NCEA)  
Office of Research and Development (ORD), USEPA  
Tel: 202-564-4113; office RRB Room 71254